

AMENDMENTS TO THE CLAIMS

1. (currently amended): A method for reconstructing metabolism of a eukaryotic mammalian organism in a non-disease state and a disease state, comprising:

- (a) collecting data regarding the mammalian organism's metabolism for said non-disease and disease states;
- (b) linking the data into metabolic pathways;
- (c) linking said metabolic pathways to functional information, disease manifestations and/or high-throughput screening information;
- (d) identifying interconnections between the metabolic pathways; and
- (e) creating maps of the mammalian organism's metabolism in said non-disease and disease states by integrating information obtained in steps (a), (b), (c) and (d).

2. (canceled)

3. (currently amended): A method for identifying a drug target comprising:

- (a) collecting data regarding a eukaryotic mammalian organism's metabolism for a non-disease state and a disease state;
- (b) linking the data into metabolic pathways;
- (c) linking said metabolic pathways to functional information, disease manifestations and/or high-throughput screening information;
- (d) identifying interconnections between the metabolic pathways;
- (e) creating maps of the mammalian organism's metabolism in said non-disease and disease states by integrating information obtained in steps (a), (b), (c) and (d) and
- (f) identifying a drug target by comparing differences between said non-disease and disease states using the maps.

4. (canceled).

5. (currently amended): The method of claim [[4]] 1 or 3, wherein said mammal mammalian organism is a human.

6. (previously presented): The method of claim 1 or 3, wherein said data regarding the organism's metabolism comprises expressed sequence tag data.

7. (previously presented): The method of claim 1 or 3, wherein said data regarding the organism's metabolism comprises biochemical units comprising metabolic steps, chemical compounds, reactions and/or enzymatic functions.

8. (previously presented): The method of claim 7, wherein said enzymatic functions comprise genes and proteins.

9. (previously presented): The method of claim 7, wherein each of said biochemical units is linked to an annotation table, said annotation table comprising at least one field.

10 (previously presented): The method of claim 9, wherein said at least one field is selected from the group consisting of organ localization, tissue localization, intracellular localization, intracellular compartmentalization, subcellular localization in another organism, a relationship to a disease, and a reference to an information source.

11. (previously presented): The method of claim 1 or 3, wherein at least one of said metabolic pathways comprises a chitinase.

12. (canceled).